CLAIMS

I (WE) CLAIM:

1.　A method for communication in a communication system, the communication system having a first cell, the first cell having a first sector and a second sector, the method comprising:

　　transmitting signals at a first power level to the first sector during a first time slot; and

　　transmitting signals at a second power level to the second sector during the first time slot.

2.　The method of claim 1, wherein the second power level is less than the first power level.

3.　The method of claim 1, further comprising:

　　transmitting signals at the second power level to the first sector during a second time slot; and

　　transmitting signals at the first power level to the second sector during the second time slot.

4.　The method of claim 3, further comprising:

　　transmitting a reverse power control signal to the first sector at the first power level during the second time slot.

5.　A method for communication in a communication system, the communication system having a first cell, the first cell having a first sector and a second sector, the method comprising:

　　determining a time-division power assignment for the first sector and the second sector; and

　　generating signals to the first sector and the second sector according to the power assignment.

6.   The method of claim 5, wherein the cellular communication system is a

2   Code Division Multiple Access (CDMA) system.

7.   The method of claim 6, further comprising:

2   adjusting reverse power control signals according to the power

assignment.

8.   The method of claim 6, further comprising:

2   adjusting a pilot signal according to the power assignment.

9.   A mobile unit, comprising:

2   an antenna; and

an equalizer coupled to the antenna, the equalizer comprising:

4   a plurality of taps, each having first and second associated

coefficients, the first associated coefficient corresponding

6   to a first time slot, the second associated coefficient

corresponding to a second time slot, the plurality of taps

8   being operative to scale a first set of input symbols during

the first time slot by the first associated coefficients, the

10   plurality of taps being further operative to scale a second

set of input symbols during the second time slot by the

12   second associated coefficients, the plurality of taps being

further operative to generate tap outputs;

14   a summing node coupled to the plurality of taps, the summing

node being operative to sum the tap outputs; and

16   a memory storage unit adapted to store coefficient adjustment

information, wherein the associated coefficients are

18   adjusted according to the coefficient adjustment

information.

10.   The mobile unit of claim 9, wherein the summing node is further

2   operative to generate a C/I estimate for each time slot.

11.   The mobile unit of claim 10, further comprising:

2   a decision node operative to generate a data rate decision for each
          time slot based on the C/I estimate.

12.   The mobile unit of claim 11, wherein the decision node comprises a look-

2   up table correlating C/I estimates and data rates.

13.   An equalizer, comprising:

2   a plurality of taps, the taps being operative to scale input symbols with a
               first set of associated coefficients during a first time slot and with

4   a second set of associated coefficients during a second time slot;
               and

6   a coefficient adjustment node coupled to the plurality of taps, the
               coefficient adjustment node being operative to apply the first set

8   of associated coefficients during the first time slot and to apply the
               second set of associated coefficients during the second time slot.

14.   The equalizer of claim 13, wherein the equalizer is an adaptive equalizer.

15.   The equalizer of claim 14, wherein the equalizer is operative to generate

2   a C/I estimate, the equalizer having (2L+1) coefficients "C," the C/I estimate
     for a time slot "i" being given as:

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$$y_i(n) = \sum_{\ell=-L}^{L} C_{i,\ell}(n) \cdot x_i(n - \ell T),$$

wherein "n" is a sample set index, each sample set comprising a plurality of

6   input symbols, wherein "x" is an input symbol within a sample set, and
     wherein "T" is the period of the input symbol, x.

16.   The equalizer of claim 15, further comprising:

2   a data rate decision node operative to receive the C/I estimate and
               determine a corresponding date rate.

17.   A mobile unit, comprising:

2   an equalizer adapted to calculate a first C/I estimate for a first
       transmitted signal power and a second C/I estimate for a second

4   transmitted signal power; and

       a data rate decision node operative to receive C/I estimates from the

6   equalizer and generate a first data rate decision for the first C/I
       estimate and a second data rate decision for the second C/I

8   estimate.

18.   The mobile unit as in claim 17, wherein the first transmitted signal power

2   is received during a first time slot, and the second transmitted signal power
       during a second time slot.